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IN THE CLAIMS:

Please replace claims 1 through 15 with the following clean version of amended claims 1 through 17:

1. (currently amended) A water dehumidification and condensation system, comprising:

[[a]] an air-tight passively solar-heated water vapor retaining container, wherein the container is an elongated container having dimensions of from about 6 inches in height, and from about one (1) foot to about 20 acres in width and from about two feet to about 20 acres in length;

a <u>liquid-tight</u> condenser located within the <u>air-tight</u> water vapor retaining container for containing a liquid at a lower temperature than the water vapor, such that condensate forms on the outside of the condenser when water vapor is present and lower temperature liquid is in the condenser; and

a collection trough under the condenser for gravitationally collecting the condensate which has sweated off the condenser thereby effecting dehumidification of the system.

- 2. (currently amended) The water dehumidification and condensation system of claim 1, wherein the water vapor retaining container is a passively heated solar system darkly colored material selected from the group consisting of plastic and metal.
- 3. (currently amended) The water dehumidification and condensation system of claim 1, wherein the water vapor retaining container is airtight.
- 4. (currently amended) The water dehumidification and condensation system of claim 1, wherein the condenser is made of pipe.
- 5. (currently amended) The water dehumidification and condensation system of claim 4, wherein the condenser is made of a closed loop system of pipes.

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6. (currently amended) The water dehumidification and condensation system of

claim 4, wherein the condenser is made of a pipe material selected from the group consisting of copper

and aluminum.

7. (currently amended) The water dehumidification and condensation system of

claim 1, wherein the condenser is longitudinally oriented within an elongated water vapor retaining

container.

8. (currently amended) The water dehumidification and condensation system of

claim 1, wherein the condenser carries a liquid selected from the group consisting of water, refrigerant

and supercooled gases.

9. (currently amended) The water dehumidification and condensation system of

claim 1, wherein the liquid in the condenser is at a temperature of less than about 45 1.1F.

10. (currently amended) The water dehumidification and condensation system of

claim 1, wherein the container has an interior temperature of greater than about 100 | | F.

11. (currently amended) The water dehumidification and condensation system of

claim 1, wherein the collection trough is of a V-shaped configuration.

12. (currently amended) The water dehumidification and condensation system of

claim 1, wherein the condensate being collected is water having less than about 500 ppm impurities.

13. (currently amended) A passive solar water condensation system for processing

non-potable water into potable water by condensing water vapor from contaminated water sources,

comprising:

an elongated passive solar water vapor retaining dehumidification container to

contain the non-potable water to be separated into potable water and residual sediment, said non-potable

water to be put into a vapor phase by heating with solar energy, wherein the container is an elongated

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container having dimensions of from about 6 inches in height, and from about one (1) foot to about 20 acres in width and from about two feet to about 20 acres in length;

at least one condenser pipe located within the water vapor retaining dehumidification container for receiving an incoming cold liquid at a lower temperature than the water vapor, such that condensate forms on the outside of the condenser when water vapor is present and lower temperature liquid is in the condenser; and

a collection trough under the condenser for gravitationally collecting the condensate which has sweated off the condenser, forming purified water.

- 14. (currently amended) The passive solar water condensation system of claim 13, further comprising a pre-treatment pond for pre-cleaning the non-potable water which is received by the dehumidification water vapor retaining container.
- 15. (currently amended) The condensation system of claim 13, further comprising a storage tank for storing the purified water collected from the dehumidification process.
- 16. (new) The condensation system of claim 1, further comprising a circulating pump to pulse fresh liquid through the condenser.
- 17. (new) The condensation system of claim 16, wherein the circulating pump is adapted to pulse fresh cold liquid through the condenser to create a situation where, during operation, there is a difference of temperature between the liquid inside the condenser and the water vapor outside the condenser of at least about 50°F and about 150°F.

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